

Martiak, Nichole E.

From: Cicenia, Christine [Christine.C.Cicenia@Pfizer.com]
Sent: Thursday, October 19, 2006 10:44 AM
To: Martiak, Nichole E.
Subject: FW: A367 Office Action - Due 9/27/06; HB ref: 1321-13 DIV

Good morning, Nichole.

After researching, I have come up with a copy of the English Abstracts for the patents referenced in the IDS. I am sending a PDF file that includes the references. This case was originally handled by outside counsel, so that attachment came from them. (You will note the file says A366, however, I believe the references were almost identical to the A367 case.)

If you have any further questions, please let me know.

Christine Cicenia
Sr. Administrative Assistant
to Darryl C. Little
Telephone: 973-385-3846

From: Little, Darryl
Sent: Tuesday, October 17, 2006 11:05 AM
To: Cicenia, Christine
Subject: RE: A367 Office Action - Due 9/27/06; HB ref: 1321-13 DIV

Christine,

Please provide the info requested to Nichole.

Thanks,
Darryl

From: Martiak, Nichole E. [mailto:Nmartiak@hoffmannbaron.com]
Sent: Tuesday, October 17, 2006 10:01 AM
To: Little, Darryl
Cc: Scola, Daniel
Subject: RE: A367 Office Action - Due 9/27/06; HB ref: 1321-13 DIV

Dear Darryl,

Good morning. I am working with Dan Scola on the response for the Office Action dated 06/27/2006 for the above referenced application (10/766,366). Do you have copies of the foreign references listed on the Information Disclosure Statement as discussed on page 3 of the Office Action? Please let us know so we can retrieve the relevant English abstracts and printed publications to submit in our response, if necessary.

Thanks,

Nichole

Nichole E. Martiak, Esq.

Hoffmann & Baron, LLP
1055 Parsippany Blvd.
Parsippany, NJ 07054
(973) 331-1700 phone
(973) 331-1717 fax

-----Original Message-----

From: Scola, Daniel
Sent: Friday, October 13, 2006 1:20 PM
To: Martiak, Nichole E.
Subject: FW: A367 Office Action - Due 9/27/06

-----Original Message-----

From: Little, Darryl [mailto:Darryl.Little@Pfizer.com]
Sent: Wednesday, September 27, 2006 3:16 PM
To: Scola, Daniel
Cc: Larmann, Jamie M.
Subject: FW: A367 Office Action - Due 9/27/06

Dan/Jamie,

Can you handle the case below...? As well as one more to follow (PC 5855C1)... 3 month statutory period for both have expired. Hoping to have drafts within 1 month extension, but definitely before 3 month extension is necessary.

Let me know. Also please let me know pricing estimate for both cases.

Thanks,
Darryl

From: Cicenia, Christine
Sent: Thursday, September 14, 2006 11:24 AM
To: Little, Darryl
Subject: A367 Office Action - Due 9/27/06

Darryl,

Here is the OA, references cited, and shell for the response. The two JP patents mentioned are attached to the back of the OA from the Examiner.

Christine

<<PC18212 (A367) Office Action 6 27 06.pdf>> <<A367 Refs cited.zip>> <<A0000367 Response 9 06.doc>>

Shellac-based tooth-coating compositions containing basic amino acids and pH controllers

L9 ANSWER 1 OF 8 HCA COPYRIGHT 2000 ACS

AN 132:156565 HCA

IN Oka, Hironori

PA Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2000044422 A2 20000215 JP 1998-250314 19980731

AB The compns., which prevent teeth from caries because of the antibacterial and antiplaque effects and have no stickiness just after curing, contain alc.-sol. shellac, 0.001-30 parts (based on 100 parts 1-80% alc. soln. of shellac) and 0.001-30 parts pH controllers. The compns. may addnl. contain bactericides, e.g. quaternary ammonium salts, chlorhexidine, etc., pharmacol.-active ingredients, e.g. azulene, glycyrhizinic acid, allantoin, tranexamic acid, propolis, etc., and/or carbohydrates such as sugar alcs. or oligosaccharides. Laccoat EDS (50% EtOH soln. of shellac) 27.0, EtOH 56.0, L-arginine 0.1, hinokitiol 2.0, and lavender oil 7.0 g were mixed to give a coating compn. The compn. was applied to a tooth by a brush to dry within 3 s to form a nonsticky film.

Dentifrices containing acidic polysaccharides and noncationic bactericides

L9 ANSWER 2 OF 8 HCA COPYRIGHT 2000 ACS

AN 131:35676 HCA

IN Iwata, Masaaki; Minemoto, Isao

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 11158052 A2 19990615 JP 1997-344469 19971128

AB The dentifrices contain polycarboxylic acids derived from polysaccharides comprising anhydroglucose unit or their salts and noncationic bactericides. The polycarboxylic acids inhibit formation of hydroxyapatite crystal, and their combined use with noncationic bactericides effectively inhibit formation of dental calculus. An aq. HClO soln. was added dropwise to a mixt. of corn starch, H₂O, and RUC13.nH₂O at 20.degree. and pH 9 over 3 h, and the reaction mixt. was further stirred for 2 h to give polycarboxylic acid Na salts. A dental paste contg. the polycarboxylic acid Na salts and triclosan was also formulated.

Tooth coating composite and its preparation

L9 ANSWER 3 OF 8 HCA COPYRIGHT 2000 ACS
AN 130:227562 HCA
IN Oka, Hironori
PA Japan
SO Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 900560	A1	19990310	EP 1998-117005	19980908
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11147815	A2	19990602	JP 1997-309268	19971022
	JP 3069540	B2	20000724		
	JP 11240816	A2	19990907	JP 1998-58871	19980223
PRAI	JP 1997-285951	19970909			
	JP 1997-309268	19971022			
	JP 1998-58871	19980223			
AB	The composite of the present invention comprising shellac dissolved in alc. and at least one of antibacterial constituent, antibacteria antibody, and efficacious constituent is applied to a tooth surface to form an antibacterial film on the tooth surface such that it can prevent effectively dental caries and periodontal disease and cure periodontal disease. Further, it is possible to apply the composite to a tooth without any special tech. skill such that it is quite easy to prevent dental caries and periodontal disease without any help of the dentist. A compn. was prep'd. contg. shellac 27.0, abs. ethanol 56.0, hinokitiol 2.0, amyl formate 7.0, and lavender oil 6.0g.				
RE.CNT 3					
RE					
	(1) Blendax-Werke R Schneider & Co; DE 1965046 A1 1971 HCA				
	(2) Jenko, A; AT 172063 B 1952				
	(3) Kawai, J; JP 04082821 A				

Anticalculus dentifrice compositions containing phytates and noncationic bactericides

L9 ANSWER 4 OF 8 HCA COPYRIGHT 2000 ACS
AN 129:153031 HCA
IN Iwata, Masaaki; Minemoto, Isao
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10182383	A2	19980707	JP 1996-355758	19961224
AB	Title compns. contain phytic acid (I) or its water-sol. salts and noncationic bactericides. Silica 15.0, 60% sorbitol soln. 25.0, Na CM-cellulose 1.0, Na saccharin 0.15, Na lauryl sulfate 1.5, NaOH, I 2.0, triclosan 0.2, and H ₂ O to 100.0 wt.% were mixed to prep. a toothpaste, which in vitro inhibited bacteria assoc'd. with dental plaque formation with MIC of <1.0-6.25 ppm. Inhibition of crystal growth of hydroxyapatite by I was also shown.				

Mouthwashes or other oral liquid compositions containing gellan gum and nonionic surfactants to improve stability

L9 ANSWER 5 OF 8 HCA COPYRIGHT 2000 ACS
AN 124:241818 HCA
IN Okumura, Kenji; Saito, Tooru; Ootsuki, Hidehiko
PA Sunstar KK, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08003074	A2	19960109	JP 1994-138609	19940621
AB Mouthwashes or other oral liq. compns. contain gellan gum and nonionic surfactants in addn. to other ingredients to improve gellan gum stability and to prolong active ingredient retention time. A mouthwash contained tocopherol nicotinate 0.05, gellan gum 0.2, ethoxylated castor oil 0.5, ethanol 5.0, sodium dihydrogen phosphate 0.01, sodium monohydrogen phosphate 0.01, glycerin 13, sodium saccharin 0.01, perfumes 0.3, and water to 100 parts.				

Cosmetic compositions in polyethylene or polypropylene containers

L9 ANSWER 6 OF 8 HCA COPYRIGHT 2000 ACS
AN 113:84653 HCA
IN Yamamoto, Mizuya; Tokumitsu, Fumihiro; Sakamoto, Toyoko
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 02069411	A2	19900308	JP 1988-221572	19880905
JP 2778046	B2	19980723		
AB Cosmetic compns. (e.g. toothpastes, face cleansers) contain anionic surfactants and .gtoreq.1 water-insol. active ingredients chosen from tocopherols, .alpha.-bisabolol (I), glycyrrhetic acids, cholesterols, hydroxamic acids, isopropylmethylphenols, and hinokitiol and placed in containers, in which the inner layers are made of high-d. polyethylene, polypropylene, or low-d. polyethylene crosslinked with metals. Toothpaste was prep'd. from a mixt. consisting of CaHPO ₄ 45, SiO ₂ 2.0, sorbitol soln. 25.0, propylene glycol 3.0, Na CM-cellulose 1.1, Na lauryl sulfate 1.5, sodium saccharin 0.1, Me p-hydroxybenzoate 0.1, fragrances 1.0, I 0.1, and H ₂ O to 100% by wt. and packed in a tube laminated with (from outer layer) polypropylene, Al foil, and polypropylene, and preserved at 50.degree. for 1 mo without change in the I content.				

Dentifrices containing anionic surfactants, physiologically active ingredients in containers of acrylonitrile copolymer

L9 ANSWER 7 OF 8 HCA COPYRIGHT 2000 ACS
AN 112:204499 HCA
IN Yamamoto, Mizuya; Tokumitsu, Fumihiro; Sakamoto, Toyoko
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 01305021	A2	19891208	JP 1988-136566	19880602

AB Dentifrices contain anionic surfactants and .gtoreq.1 non-water-sol. active ingredients chosen from tocopherol and its derivs., .alpha.-bisabolol (I), glycyrrhetic acid and its derivs., cholesterol and its derivs., hydroxamic acid and its derivs., isopropylmethylphenols, and hinokitiol and are placed in containers prepnd. with polymers of CH₂:CR₁CN (R₁= H, lower alkyl, halo) and CH₂:CR₂CO₂R₃ (R₂= same as I; R₃= alkyl), butadiene and/or isoprene. A tooth paste comprising CaHPO₄ 45, SiO₂ 2.0, sorbitol soln. 25.0, propylene glycol 3.0, Na CM-cellulose 1.1, Na lauryl sulfate 1.5, Na saccharin 0.1, Me p-hydroxybenzoate 0.1, fragrance 1.0, I 0.1, and H₂O to 100% was placed in a container, which was a laminate of, from outside, acrylonitrile copolymer (acrylonitrile-butadiene rubber-acrylonitrile-Me acrylate graft copolymer, contg. .gtoreq.75% acrylonitrile), ethylene-methacrylic acid copolymer, Al foil, ethylene-methacrylic acid copolymer, and the acrylonitrile copolymer. The tooth paste was kept at 50.degree. for 1 mo and showed .gtoreq.90% intact I.

Anticaries agents

L9 ANSWER 8 OF 8 HCA COPYRIGHT 2000 ACS
AN 102:31949 HCA
PA Kanebo Foods, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 59175410	A2	19841004	JP 1983-51199	19830326
JP 01040005	B4	19890824		

AB Dentifrices that prevent dental caries contain natural essential oils, components of these oils, synthetic fragrant compds., carboxylic acids, and/or lactones. Thus, a dentifrice comprises cypress oil 20, rosemary oil 40, Origanum oil 20, cinnamon oil 20, geraniol [106-24-1] 40, cyclamen aldehyde [103-95-7] 40, lauric acid [143-07-7] 40, oleic acid [112-80-1] 20, and .delta.-tetradecalactone [2721-22-4] 40 parts. The antimicrobial activity of this prepn. against Streptococcus mutans was demonstrated in vitro.

Disposable oral hygiene product comprising waterproof container and porous drug-holding material

L10 ANSWER 1 OF 1 HCA COPYRIGHT 2000 ACS

AN 131:149103 HCA

IN Maruoka, Takao

PA Kanae Kagawa K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 11197217	A2	19990727	JP 1998-18224
				19980112

AB The product, which is used by adding H₂O to the container to dissolve the drugs for rinsing mouth or preventing and treating tonsillitis, mastitis, etc., comprises a waterproof container and a porous drug-holding material, e.g. porous sachet, woven or nonwoven fabric bag, net, punching sheet, etc., which holds drugs and surfactants and/or moisturizers. Colorants may be added to the drugs to indicate the dissoln. state. The drug-holding material keeps storage-stability of the drug and rapidly releases the drug upon contact with water. A PET nonwoven fabric sheet was impregnated with 1 mL compn. contg. povidone-iodine 70, glycerin 50, Tween 80 5 mg, and H₂O balance and dried. The sheet and H₂O were placed in a paper cup and the cup was moderately swung to dissolve the drug within 30 s.

Aerosol antibacterial cleaning compositions for cleaning **toothbrushes** without toxic residues and cleaning of **toothbrushes** using the compositions

L13 ANSWER 2 OF 38 HCA COPYRIGHT 2000 ACS
AN 131:230313 HCA
IN Todá, Atsuhiro; Nishio, Yoshimitsu; Furukawa, Toshitada; Iijima, Kazuo; Kurihara, Junya
PA Kyowa Kogyo K. K., Japan; Kanehide Jochugiku K. K.
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11256191	A2	19990921	JP 1998-78323	19980310

AB The cleaning compns. essentially contain bactericides. An aq. compn. contg. 90% EtOH 70.0, mushroom ext. 0.5, black tea leave ext. 0.50, peppermint oil 0.02, and antiinflammation agent 0.04% was pressurized with N (g) to give an aerosol compn. exhibiting good properties of cleaning of a toothbrush root on cleaning a toothbrush with the compn.

Cosmetics, sanitary products, and quasi drugs containing hydrophilic substances of Cupressaceae plants

L13 ANSWER 3 OF 38 HCA COPYRIGHT 2000 ACS
AN 131:174843 HCA
IN Moriyama, Mariko; Ninomiya, Kazuko
PA MTI Y. K., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11228379	A2	19990824	JP 1998-51306	19980218

AB The title health products contain (A) wastewater generated from steam distn. of wood and/or branches and leaves of Cupressaceae plants to ext. essential oils, (B) exts. prep'd. by soaking the wood and/or branches and leaves in cold water or hot water, (C) exts. prep'd. by shaking essential oils of Cupressaceae plants with H₂O, (D) exts. prep'd. by soaking the wood and/or branches and leaves in a mixt. of alcs. and H₂O, or their concd. products. Hydrophilic compds. contained in the wastewater inhibit tyrosinase and show antibacterial and deodorant effects. An aq. ext. of sawdust of Thujopsis dolabrata hondae inhibited mushroom tyrosinase in a dose-dependent manner. A hair tonic contg. EtOH, Swertia ext., vitamin B6, vitamin E, propylene glycol, Kollidon K, menthol, and the above aq. ext. prevented hair loss and stimulated hair growth.

Branched cyclodextrin clathrate compound of
hinokitiols for cosmetics

L13 ANSWER 4 OF 38 HCA COPYRIGHT 2000 ACS
AN 131:149098 HCA
IN Ishida, Kenya; Sakurai, Kazutoshi
PA Takasago International Corporation, Japan
SO Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 934954	A1	19990811	EP 1999-400258	19990204
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11222455	A2	19990817	JP 1998-36562	19980204
PRAI	JP 1998-36562		19980204		
AB	Hinokitiol having antibacterial activity is added to cosmetics. Clathrate of hinokitiols is prep'd. by using a branched cyclodextrin such as a branched .beta.-cyclodextrin. The clathrate compd. can be used in hair cosmetics, bathing agents, skin cosmetics, and oral compns.				
RE.CNT 4					
RE	(1) Nikken Chem KK; JP 61197602 A 1986 (2) Seiwa Technological Laboratories Limited; EP 0215169 A 1987 (3) Shiseido Company Limited; EP 0882447 A 1998 (4) Shiseido Company Ltd; US 5447920 A 1995				

Dentifrices containing carboxybetaine polymers and
noncationic bactericides

L13 ANSWER 5 OF 38 HCA COPYRIGHT 2000 ACS
AN 131:78195 HCA
IN Hayashi, Rieko; Akabane, Yasuhiro; Hiratsuka, Susumu
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF /
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11158051	A2	19990615	JP 1997-344468	19971128
AB	The dentifrices contain amphoteric surfactants comprising homopolymers or copolymers of carboxybetaine monomers and noncationic bactericides. The dentifrices show high plaque formation-inhibiting activity. An aq. soln. contg. 0.03% Amphoset and 0.03% triclosan showed 68% inhibition against plaque formation by Streptococcus sanguis on an artificial saliva-coated hydroxyapatite plate. A dental paste contg. Amphoset and triclosan was also formulated.				

Dentifrices containing carbonates and hinokitiol in weak alkaline conditions

L13 ANSWER 6 OF 38 HCA COPYRIGHT 2000 ACS

AN 131:9474 HCA

IN Kojima, Nobuo

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11130648	A2	19990518	JP 1997-312624	19971029
AB Dentifrices for the prevention and treatment of periodontal diseases, comprise water-sol, inorg. carbonates, hinokitiol, and .gtoreq. 1 compd. selected from the group consisting of sulfites, bisulfites, and metabisulfites. The compns. do not develop colors during storage. A toothpaste contained silicic anhydride 10, CM cellulose 0.8, hydroxyethyl cellulose 0.3, glycerin 40, polyethylene glycol 5, polyoxyethylene behenyl ether 4, benzethonium chloride 0.05, .beta.-cyclodextrin 0.2, hinokitiol 0.1, sodium bisulfite 0.1, sodium hydrogen carbonate 20, butylparaben 0.1, flavors 0.1, and water to 100 %.					

Dentifrices containing antiplasmins and ascorbic acids

L13 ANSWER 7 OF 38 HCA COPYRIGHT 2000 ACS

AN 130:172807 HCA

IN Yamamoto, Mizuya; Uno, Daisuke

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11012142	A2	19990119	JP 1997-179000	19970619
AB The dentifrices, useful for preventing or treating gingival inflammation, contain antiplasmins, ascorbic acid and/or its derivs., and optionally bactericides. A dentifrice contg. tranexamic acid, ascorbic acid Mg 2-phosphate, triclosan, and other ingredients was prep'd. The dentifrice was used by healthy male volunteers to significantly improved gingival index.					

Dentifrice compositions containing microbicides, surfactants, and alkali carbonates for bad breath control

L13 ANSWER 11 OF 38 HCA COPYRIGHT 2000 ACS

AN 129:140492 HCA

IN Sase, Ayumi; Horiuchi, Teruo

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10212220	A2	19980811	JP 1997-31330	19970130
AB	Title comps., which show long-lasting bad breath-controlling effect, contain microbicides, nonionic and/or amphoteric surfactants, and alkali metal bicarbonates and/or carbonates. A mouthwash was prep'd. from NaHCO ₃ 2.00, benzethonium chloride 0.01, polyoxyethylene cetyl ether 2.00, Na saccharin 0.01, perfume 0.50, EtOH 10, glycerin 5, and H ₂ O to 100 wt.%.				

Oral compositions for oral disease and halitosis control

L13 ANSWER 12 OF 38 HCA COPYRIGHT 2000 ACS

AN 129:140488 HCA

IN Sayama, Yoshikatsu; Sugiyama, Shinji; Matsuda, Hidetaka; Fukuda, Kiyoshi
PA Nippon Zettoc Co., Ltd., Japan; Chugai Pharmaceutical Co., Ltd.; Taiyo
Koryo K. K.

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10194943	A2	19980728	JP 1997-1653	19970108
AB	Oral comps. [e.g. dentifrices] for oral disease and halitosis control contain [a] Quercus salicina exts., [b] exts. of medicinal plants such as Acanthopanax senticococcus and rehmannia, [c] asarum root exts. and/or hinokitiol.				

Lubricating oils used in dental clinic tools

L13 ANSWER 13 OF 38 HCA COPYRIGHT 2000 ACS
AN 127:192833 HCA
IN Sakauchi, Mika; Ono, Kazuhiro; Osada, Takashi
PA Showa Pharmaceutical Chemical Industry Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09188892	A2	19970722	JP 1996-293628	19961106
PRAI JP 1995-287055		19951106		

AB The lubricating oils are prep'd. by blending a base oil such as (iso)paraffinic oil or polybutene with a flow-index improver contg. higher fatty acids, higher monovalent alcs., arom. alcs., or polyalkylene glycols, an oil-sol. disinfectant (e.g., *.beta.-thujaplicin*), and/or a Disinfecting plant oil such as Eucalyptus oil or Jojoba oil.

Hinokitiol compositions and stabilization of them by adjusting pH with organic acids

L13 ANSWER 14 OF 38 HCA COPYRIGHT 2000 ACS
AN 127:140193 HCA
IN Okajima, Takako; Immura, Koji; Suzuki, Kenichi; Urushizaki, Fumio
PA Taiho Pharmaceutical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09188620	A2	19970722	JP 1996-264	19960105
AB	Compsns. contg. hinokitiol (I), useful as a microbicide for hair and dental preps., is adjusted to pH 5.0-6.0 with org. acids for stabilization. The compns. addnl. contg. minoxidil are also claimed. A compn. contg. I, glycyrrhetic acid, pantothenyl Et ether, glycerin, propylene glycol, and EtOH was adjusted to pH 5.5 with NaOH and citric acid to give a hair growth lotion.			

Manufacture of pressure-sensitive drug capsules by cooling method for cosmetics

L13 ANSWER 15 OF 38 HCA COPYRIGHT 2000 ACS

AN 126:122293 HCA

IN Shirasawa, Takeshi; Mino, Seiya

PA Kao Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08325117	A2	19961210	JP 1995-134987	19950601
AB Drug capsules, from which active ingredients are easily released by brushing, etc., are manufd. by mixing drug particles with water-insol. encapsulating materials dissolved in org. solvents, cooling, and removing the solvents. The solvents can be recycled. The capsules are useful for dentifrices, shampoos, etc. Ascorbic acid granules were treated with EtOH soln. of paraffin wax, cooled, and filtered to give pressure-sensitive microcapsules.					

Preparation of hinokitiol and its intermediates

L13 ANSWER 16 OF 38 HCA COPYRIGHT 2000 ACS

AN 124:317530 HCA

IN Morita, Yasuhiro; Ninoi, Takeshi; Kubota, Minoru

PA Osaka Juki Kagaku Kogyo Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08040971	A2	19960213	JP 1994-197634	19940729
	JP 2838656	B2	19981216		
AB Hinokitiol (I), useful for perfumes, cosmetics, dentifrices, and hair growth stimulants, was prep'd. by redn. of 6,6-dimethylfulvene (II) with dialkylaluminum hydrides, cycloaddn. of dihaloketenes to the resulting 1-isopropylcyclopentadiene (III) which is selectively formed as the main product by the previous step, and rearrangement of the resulting adducts with solvents. Thus, a hexane soln. of AlH(CH ₂ CHMe ₂) ₂ was added dropwise to a mixt. of II and hexane at 0.degree. and the reaction mixt. was further stirred at 0.degree. for 2 h then at .1toreq.10.degree. for 30 h. The redn. reaction mixt. was added dropwise to an aq. HCl soln. at .1toreq.10.degree. and the reaction mixt. was stirred at .1toreq.10.degree. for 1 h to give 99.0% III with 1-/2-isomer ratio 14.8, vs. 0.91 for a control by redn. of II with LiAlH ₄ . A hexane soln. of Et ₃ N was added dropwise to a mixt. of III and Cl ₂ CHCOCl at 0.degree. and the reaction mixt. was maintained at 0.degree. for 2 h to give a regioisomeric mixt. of the dimethylfulvene-ketene adduct. The adduct was dissolved in acetone-AcOH-Et ₃ N-H ₂ O mixt. and the soln. was refluxed for 10 h to give 28.0% (based on II) I.					

Dentifrice compositions containing sodium chloride, sodium bicarbonate, and bactericides

L13 ANSWER 17 OF 38 HCA COPYRIGHT 2000 ACS
AN 124:66247 HCA
IN Nakai, Ryozo; Maeda, Akitsugu; Yoshida, Midenori; Eguchi, Yasuteru
PA Kao Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07258050	A2	19951009	JP 1994-49457	19940318

AB Dentifrice compns., such as toothpastes and prepsn. for gum, contain NaCl, NaHCO₃, bactericides, and optional water-insol. abrasives, oil components, or water-sol. polymers. The compns. have periodontium disease-controlling effect, moderate saltiness, high bactericidal effect, and good taste and feeling. A toothpaste was prepnd. from NaCl 15.0, NaHCO₃ 15.0, sorbitol 14.0, glycerin 8.0, Na CM-cellulose 1.5, Na lauryl sulfate 2.0, Na saccharin 0.1, Al(OH)₃ 40.0, benzethonium chloride 0.01, perfume 0.8, and H₂O to 100 wt.%.

Dentifrice compositions containing enzymes and antifungal agents

L13 ANSWER 18 OF 38 HCA COPYRIGHT 2000 ACS
AN 123:237578 HCA
IN Sugano, Hideaki; Yamagishi, Keiichi; Ito, Satoshi; Tokumitsu, Fumihiro
PA Lion Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

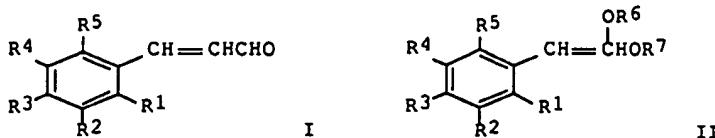
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07187977	A2	19950725	JP 1993-348110	19931224

OS MARPAT 123:237578
AB Dentifrice compns. contain enzymes as active ingredients and antifungal agents chosen from RCHO, RCH(OR₁)OR₂ [R = C₁₋₅ alkyl, alkenyl; R₁, R₂ = C₁₋₃ alkyl, C₂₋₃ alkenyl; R₁R₂ may form CH₂CHMe, HOCH₂CHCH₂, CH₂CH(OH)CH₂], and hinokitiol. The antifungal agents also stabilize the enzymes (e.g. dextranase). A stable liq. dentifrice was formulated contg. dextranase and tert-2-hexenal.

Liquid dentifrice compositions with low ethanol content

L13 ANSWER 19 OF 38 HCA COPYRIGHT 2000 ACS
AN 123:237576 HCA
IN Sugano, Hideaki; Yamagishi, Keiichi; Ito, Satoshi; Tokumitsu, Fumihiro
PA Lion Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07187973	A2	19950725	JP 1993-348109	19931224
OS MARPAT 123:237576				
GI				



AB Liq. dentifrices contain .1 to req. 3 wt.% EtOH and antifungal agents chosen from cinnamaldehydes I (R₁-R₅ = C₁-3 alkyl, C₂-3 alkenyl, H, OH, MeO, EtO; the adjacent 2 groups may form OCH₂O; not all of R₁-R₅ = H), their acetals II [R₁-R₅ = C₁-3 alkyl, C₂-3 alkenyl, H, OH, MeO, EtO; the adjacent 2 groups may form OCH₂O; R₆, R₇ = C₁-3 alkyl, C₂-3 alkenyl; R₆R₇ may form CH₂CHMe, HOCH₂CHCH₂, CH₂CH(OH)CH₂], R₈CHO (R₈ = C₅ alkyl, alkenyl), R₈C(OR₆)OR₇ (R₆-R₈ = same as above), and hinokitiol. EtOH-free mouthwash contg. 0.002% p-methoxycinnamaldehyde showed good antifungal activity.

Gargles containing hinokitiol

L13 ANSWER 20 OF 38 HCA COPYRIGHT 2000 ACS
AN 123:92950 HCA
IN Watanabe, Tatsuji
PA Nihei Mitsuyoshi, Japan; Watanabe Tatsuji
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07133214	A2	19950523	JP 1993-247580	19930908
AB				
AB	Gargles, useful for control of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA), resistant <i>Mycobacterium tuberculosis</i> , etc., contain hinokitiol (I) as the main ingredient. I inhibited MRSA MTS48001 with min. inhibitory concn. of 50 .mu.g/mL.			

Dentifrice compositions containing hinokitiol and/or guaiazulene and inorganic salts

L13 ANSWER 21 OF 38 HCA COPYRIGHT 2000 ACS

AN 117:157451 HCA

IN Hirai, Taichiro; Ida, Ikufumi; Matsuda, Hidetaka

PA Nippon Zettoc Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04198121	A2	19920717	JP 1990-327112	19901128
	JP 3036829	B2	20000424		

AB Dentifrice compns., which are packaged in containers having inner walls of synthetic polymers, contain hinokitiol and/or guaiazulene and H₂O-sol. inorg. salts. The salts inhibit absorption of hinokitiol and guaiazulene by the polymer walls. NaCl 10, Ca hydrogen phosphate 35, Na lauryl sulfate 1.50, CNC Na 1.20, glycerin 20.00, Na saccharinate 0.10, alkyldiaminoethylglycine hydrochloride 0.10, hinokitiol 0.05, flavor 1.00, and H₂O 31.05% were mixed, charged into container having polyethylene inner wall, and stored at 50.degree. for 1 mo to show 99.8% residual hinokitiol, vs. 50.2%, without NaCl.

Dentifrices containing Pharmaceutical granules

L13 ANSWER 22 OF 38 HCA COPYRIGHT 2000 ACS

AN 116:136046 HCA

IN Maeda, Akitsugu

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03271215	A2	19911203	JP 1990-71154	19900320
	JP 2857789	B2	19990217		

AB Granules with particle size 50-500 .mu.m, which contain water-insol. inorg. binders and pharmaceuticals for oral diseases, are prep'd. which disintegrate by the load of 0.1-10 g per particle. The granules enter interdental space and periodontal pocket and pharmaceutically effective components act there to prevent dental caries and periodontal diseases. An aq. slurry (H₂O content 60%) contg. synthetic Al silicate 89, colloidal silica 10, and .beta.-glycyrrhetic acid (I) 1 parts was spray-granulated to give granules (dism. 50-500 .mu.m) and disintegration strength 4.15 g/particle. A dentifrice contained the granules 15.0, glycerin 10.0, sorbitol soln. 30.0, CM-cellulose Na 2.0, saccharin Na 0.1, methylparaben 0.1, flavor 0.8 wt.%, and H₂O balance.

Mouthwashes containing sodium bicarbonate, tartaric acid and/or citric acid

L13 ANSWER 23 OF 38 HCA COPYRIGHT 2000 ACS

AN 116:113361 HCA

IN Tejima, Hiroshi

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03279321	A2	19911210	JP 1990-79659	19900328
AB	These compns. are prep'd. in the form of powder, conveniently carried and useful in cleansing the mouth. Thus, a formulation consisted of NaHCO ₃ 7, CMC-coated tartaric acid 7, hinokitiol 0.003, cetylpyridinium chloride 0.003, l-menthol 0.3 and fragrance powder 0.5g.				

Oral bactericidal compositions containing quaternary ammonium salts and hinokitiol

L13 ANSWER 24 OF 38 HCA COPYRIGHT 2000 ACS

AN 116:46323 HCA

IN Nagahata, Tetsuji

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03151317	A2	19910627	JP 1989-288152	19891106

AB Oral bactericidal compns. (e.g. gargles, dentifrices, troches), useful for prevention and treatment of periodontosis, etc., contain quaternary ammonium salts, hinokitiol (I), and optional tri-Na citrate (II). The compns. show synergistic bactericidal effect in the saliva. Human saliva contg. 0.02 wt.% benzethonium chloride (III) and 0.1 wt.% hinokitiol was spread on agar media contg. Escherichia coli and left at 37.degree. for 1 night to show 8.5 .times. 10⁵ bacterial cells, vs. 3.3 .times. 10⁹ cells for control contg. III alone. III 0.02, I 0.1, II 1.0, polyoxyethylene hydrogenated castor oil 2.0, glycerin 10.0, EtoH 10.0, Na saccharin 0.01, flavor 0.4, and H₂O to 100 wt.% were mixed to give a gargle.

Anticaries dentifrices containing antibodies to Streptococcus mutans and bactericides

L13 ANSWER 25 OF 38 HCA COPYRIGHT 2000 ACS
AN 116:11040 HCA
IN Ota, Masakatsu; Horikoshi, Toshio; Hiraoka, Junichiro
PA Kanebo, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 03115213	A2	19910516	JP 1989-252919	19890928

AB An anticaries dentifrice contains (1) an antibody to S. mutans and (2) .gtoreq.1 compd. selected from the group comprising F compds., chlorhexidines, bacteriocin, glucosyl transferase inhibitors, proteinase, bacteriolytic enzymes, and tropolones. Thus, antibodies to S. mutans were prep'd. by injecting the S. mutans antigen to chickens, and isolating the antibodies from the eggs produced by the chickens. A toothpaste contg. the antibody 0.5 and NaF 0.1% by wt. was prep'd.

Dentifrices containing hinokitiol, edetates, and amphoteric surfactants

L13 ANSWER 28 OF 38 HCA COPYRIGHT 2000 ACS
AN 111:140244 HCA
IN Sugiyama, Shinji; Matsuda, Hidetaka; Onishi, Shigeki
PA Nippon Zeola K. K., Japan; Kanebo, Ltd.
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63211218	A2	19880902	JP 1987-44867	19870227
	JP 2586896	B2	19970305	

AB A dentifrice contains hinokitiol, edetic acid (or its salt), and a carboxylic acid-type amphoteric surfactant (a betaine or imidazoline deriv.). The dentifrice is stable in storage. Thus, a toothpaste was prep'd. contg. 2-undecyl-hydroxyethylimidazoline betaine 5.0, disodium edetate 0.5, and hinokitiol 0.1% by wt.

Dentifrices containing hinokitiol, chlorhexidines, and carboxylic acid-type amphoteric surfactants

L13 ANSWER 29 OF 38 HCA COPYRIGHT 2000 ACS

AN 111:140243 HCA

IN Sugiyama, Shinji; Matsuda, Hidetaka; Onishi, Shigeki

PA Nippon Zeola K. K., Japan; Kanebo, Ltd.

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63211217	A2	19880902	JP 1987-44866	19870227
	JP 2586895	B2	19970305		
AB A dentifrice contains hinokitiol, chlorhexidines, and carboxylic acid-type amphoteric surfactants. The surfactants are betaine or imidazoline derivs. The dentifrice has a strong microbicidal activity. Thus, a toothpaste was prep'd. consisting of hinokitiol 0.05, chlorhexidine gluconate 0.02, 2-undecyl-hydroxyethylimidazolinebetaine 3.0 CaHPO4 42.0, glycerin 20.0, CM cellulose Na 1.0, Na lauryl sulfate 1.0, saccharin Na 0.05, a flavor 0.5, and H2O to 100% by wt.					

Dentifrices containing hinokitiol and sterins for control of gingivitis

L13 ANSWER 30 OF 38 HCA COPYRIGHT 2000 ACS

AN 111:102562 HCA

IN Sasaki, Izumi; Tamura, Uhei

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63188619	A2	19880804	JP 1987-19409	19870129
AB A dentifrice contains .gtoreq.1 compd. selected from the group consisting of hinokitiol and sterins (dihydrocholesterol or epidihydrocholesterol), which controls gingivitis. Thus, a toothpaste was prep'd. consisting of glycerin 10, CaCO3 40, CM cellulase 2, Na lauryl sulfate 1.5, saccharin Na 0.2, a flavor 1, hinokitiol 0.1, epidihydrocholesterol 0.01, and H2O to 100% by wt.					

Dentifrices containing monoterpenes for removing tobacco stains from teeth

L13 ANSWER 32 OF 38 HCA COPYRIGHT 2000 ACS

AN 107:204969 HCA

IN Inoue, Akira; Naganuma, Takeshi; Hozumi, Shimako

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62181212	A2	19870808	JP 1986-24642	19860205
	JP 08005772	B4	19960124		

AB Toothpastes, mouthwashes, and chewing gum contain .gtoreq.1 monoterpane selected from the group consisting of diosphenol, phellandral, carvomenthone, thymoquinone, chrysanthenone, cryptone, thujone, fenchone, picrocrocin, santenone, .alpha.-ionone, .beta.-ionone, .alpha.-irone, hinokitiol, .alpha.-thujaplicin, .gamma.-thujaplicin, artemisia ketone, and citral. The preferable concn. of the monoterpane is 0.01-10.0% by wt. These terpenes are esp. effective in removing tobacco stains from teeth. Thus, a toothpaste was prep'd. consisting of CaHPO4.cndot.2H2O 45.0, 85% glycerin 10.0, 60% sorbitol 25.0, CM-cellulose Na 0.5, preservative trace, and H2O to 100% by wt.

Dentifrices containing ubiquinone-10 and pharmaceuticals for the prevention of dental diseases

L13 ANSWER 33 OF 38 HCA COPYRIGHT 2000 ACS

AN 106:143824 HCA

IN Takasu, Emiko; Koshiba, Kiyoko; Morikawa, Fujio; Nakajima, Keisuke; Furuse, Kazumaro

PA Shiseido Co., Ltd., Japan; Eisai Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61286314	A2	19861216	JP 1985-126431	19850611
AB					

AB Dentifrices contain ubiquinone-10 and pharmaceuticals such as hinokitiol, glycyrrhizin, vitamin E, vitamin B6, lysozyme chloride, etc. These are effective in preventing and treating dental diseases. Thus, a toothpaste consisted of CaHPO4.cndot.2H2O 45, anhyd. SiO2 2, glycerin 10, sorbitol 10, CM cellulose 1, Irish moss 0.3, Na lauryl sulfate 1.8, H2O 28.6, a flavor 1.0, ubiquinone-10 0.2, vitamin B6 0.1% by wt. and a sweetener q.s.

Gelatin-encapsulated toothpaste

L13 ANSWER 34 OF 38 HCA COPYRIGHT 2000 ACS
AN 105:102367 HCA
IN Yamashita, Shigeki; Marukawa, Shigeo
PA Shiseido Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 61100516	A2	19860519	JP 1984-219789	19841019	
AB	A toothpaste contg. a foaming agent 0.5-2.0, a moisturizing agent 10.0-70.0, an abrasive 10.0-40.0, and H ₂ O 1.0-20.0% by wt. as major ingredients is encapsulated with gelatin. One capsule contains 0.3-0.5 g toothpaste, an amt. sufficient for 1 time use. It is conveniently used in schools and work places. Thus, a toothpaste consists of polyethylene glycol 68.0, CaCO ₃ 20.8, anhyd. SiO ₂ 0.2, Na lauryl sulfate 1.5, H ₂ O 7.5, a flavor 1.5, saccharin Na 0.2% by wt., hinokitiol q.s., and Japan Blue No. 1 q.s.					

Oral preparations for adhesion to mucous membrane and tooth surface

L13 ANSWER 35.OF 38 HCA COPYRIGHT 2000 ACS
AN 103:220810 HCA
PA Nitto Electric Industrial Co., Ltd., Japan; Sunstar, Inc.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 60116631	A2	19850624	JP 1983-226492	19831129	
AB	Oral preps. for adhesion to the mucous membrane and tooth surface for prolonged release of active ingredients consist of: (1) a drug layer contg. topically active ingredients, .gtoreq.1 of acrylic acid polymers, acrylic acid copolymers or their salts, Na CM-cellulose [9004-32-4], Na alginat [9005-38-3] and hydroxyethyl cellulose [9004-62-0] and glycerol [56-81-5] and(or) propylene glycol [57-55-6], and a support layer contg. .gtoreq.1 of acrylic acid polymers, acrylic acid copolymers or their salts, Na CM-cellulose and hydroxyethyl cellulose and glycerol and(or) propylene glycol. Thus, poly(acrylic acid) [9003-01-4] 2, hydroxyethyl cellulose 3, propylene glycol 45, H ₂ O 50 and Acrinol [1837-57-6] 0.1 g were mixed, spread on a polyester film and dried to form a 200-.mu.m thick layer. Sep., carboxyvinyl polymer [9003-01-4] 1, Na CM-cellulose 4, propylene glycol 45, CaCl ₂ 0.3 and H ₂ O 50 were mixed, spread on a polyester film and dried to form a 100-.mu.m thick layer. Both layers were sepd. from films, and laminated to produce an oral prepn.					

Toothpastes containing color indicators for timing adequate brushing

L13 ANSWER 36 OF 38 HCA COPYRIGHT 2000 ACS

AN 102:172447 HCA

PA Lion Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60016913	A2	19850128	JP 1983-122531	19830706
	JP 61058444	B4	19861211		

AB **Toothpastes** contain dye-polymer gel particles coated with inorg. substances. The particles are degraded during tooth brushing, and the color changes in approx. 2-2.5 min, a sufficient time for tooth brushing. Thus, 1 g yellow iron oxide was added to 1 g 3% Na alginate [9005-38-3] soln., and this mixt. was pulverized and then mixed with 3 g of TiO₂ to obtain TiO₂-coated particles (diam. 10-200 .mu.). A **toothpaste** was prep'd. contg. 1% of this powder.

Dentifrices

L13 ANSWER 37 OF 38 HCA COPYRIGHT 2000 ACS

AN 89:204248 HCA

IN Tokumaru, Teruto

PA Sunstar, Inc., Japan

SO Japan. Kokai, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53099339	A2	19780830	JP 1977-13758	19770209
	JP 58027772	B4	19830611		

AB Fluoride dentifrices comprise azulene [275-51-4] (a antiinflammatory, tissue regeneration-promoting, antiallergic agent) with Hinokitiol [499-44-5] and .gamma.-oryzanol [11042-64-1] added as stabilizer. Thus, a dentifrice contained anhyd. silicic acid 30, glycerol 20, sorbitol 30, Na CM-cellulose 0.5, Na lauryl sulfate 1.5, Bu p-hydroxybenzoate 0.03, tin fluoride 0.4, H₂O-sol. azulene, Na saccharin 0.13, H₂O 17.21, and .gamma.-oryzanol 0.2%.

Cyanoacrylate containing phenol derivatives for dental use

L13 ANSWER 38 OF 38 HCA COPYRIGHT 2000 ACS
AN 79:9909 HCA
IN Yano, Gunji
PA Neo Seiyaku Kogyo Co., Ltd.
SO Japan. Kokai, 2 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 47043218	B4	19721219	JP 1971-30422	19710510
AB	A dental palliative soln. contains cyanoacrylate and o-methoxyphenol, its derivs., or hinokitiol (1-20%) and should be kept in cool and dark place.			

Oral hygiene composition containing encapsulated hinokitiol NoAbstract.

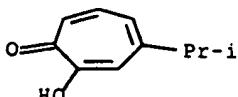
L18 ANSWER 1 OF 16 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1999-325505 [27] WPINDEX
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IN HONG, J U; KIM, D H; LEE, S R; SUH, G H
PA (PACI-N) PACIFIC CORP
CYC 1
PI KR 98025553 A 19980715 (199927)*
ADT KR 98025553 A KR 1996-43716 19961002
PRAI KR 1996-43716 19961002
**** DATA NOT AVAILABLE FOR THIS ACCESSION NUMBER

Oral bactericidal compositions containing quaternary ammonium salts and hinokitiol

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1992:46323 CAPLUS
DOCUMENT NUMBER: 116:46323

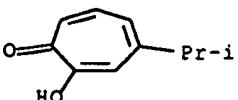
INVENTOR(S): Nagahata, Tetsuji
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AB	JP 03151317	A2	19910627	JP 1989-288152	19891106
AB	Oral bactericidal compns. (e.g. gargles, dentifrices, troches), useful for prevention and treatment of periodontosis, etc., contain quaternary ammonium salts, hinokitiol (I), and optional tri-Na citrate (II). The compns. show synergistic bactericidal effect in the saliva. Human saliva contg. 0.02 wt.% benzethonium chloride (III) and 0.1 wt.% hinokitiol was spread on agar media contg. Escherichia coli and left at 37.degree. for 1 night to show 8.5 .times. 105 bacterial cells, vs. 3.3 .times. 109 cells for control contg. III alone. III 0.02, I 0.1, II 1.0, polyoxyethylene hydrogenated castor oil 2.0, glycerin 10.0, EtOH 10.0, Na saccharin 0.01, flavor 0.4, and H2O to 100 wt.% were mixed to give a gargle.				
IT	499-44-5D, Hinokitiol, mixts. contg. quaternary ammonium salts 138317-14-3 138317-15-4				
	RL: BIOL (Biological study) (oral bactericides contg., synergistic)				
RN	499-44-5 CAPLUS				
CN	2,4,6-Cycloheptatrien-1-one, 2-hydroxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)				

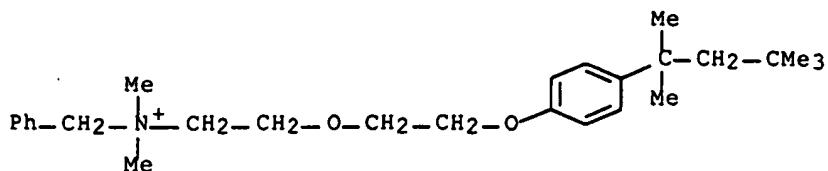


RN 138317-14-3 CAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride, mixt. with 2-hydroxy-4-(1-methylethyl)-2,4,6-cycloheptatrien-1-one (9CI) (CA INDEX NAME)

CM 1
CRN 499-44-5
CMF C10 H12 O2



CM 2
CRN 121-54-0
CMF C27 H42 N O2 . Cl



● Cl⁻

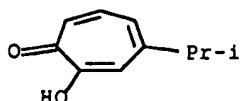
RN 138317-15-4 CAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy]ethoxy]ethyl]-, chloride, mixt. with 2-hydroxy-4-(1-methylethyl)-2,4,6-cycloheptatrien-1-one and 2-hydroxy-1,2,3-propanetricarboxylic acid trisodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 499-44-5

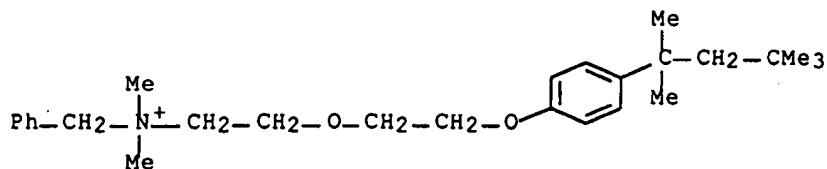
CMF C10 H12 O2



CM 2

CRN 121-54-0

CMF C27 H42 N O2 . Cl

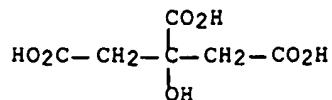


● Cl⁻

CM 3

CRN 68-04-2

CMF C6 H8 O7 . 3 Na



● 3 Na

*****END OF RECORD *****

Toothpastes containing color indicators for timing adequate brushing

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1985:172447 CAPLUS
DOCUMENT NUMBER: 102:172447

PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

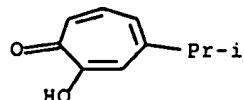
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60016913	A2	19850128	JP 1983-122531	19830706
JP 61058444	B4	19861211		

AB Toothpastes contain dye-polymer gel particles coated with inorg. substances. The particles are degraded during tooth brushing, and the color changes in approx. 2-2.5 min, a sufficient time for tooth brushing. Thus, 1 g yellow iron oxide was added to 1 g 3% Na alginate [9005-38-3] soln., and this mixt. was pulverized and then mixed with 3 g of TiO₂ to obtain TiO₂-coated particles (diam. 10-200 .mu.). A toothpaste was prep'd. contg. 1% of this powder.

IT 499-44-5D, iron complexes
RL: BIOL (Biological study)
(particles contg. polymers and, for toothpaste time of brushing indicator)

RN 499-44-5 CAPLUS

CN 2,4,6-Cycloheptatrien-1-one, 2-hydroxy-4-(1-methylethyl)- (9CI) (CA INDEX NAME)



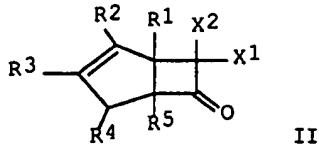
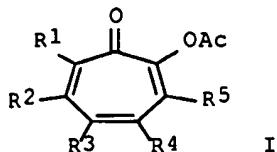
*** END OF RECORD ***

Preparation of sulfonyloxytropones

L24 ANSWER 89 OF 94 MARPAT COPYRIGHT 2000 ACS
ACCESSION NUMBER: 130:223073 MARPAT

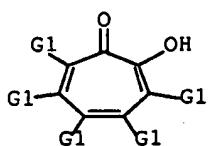
INVENTOR(S): Takuma, Yuki; Okamoto, Ken; Mizuho, Yuji; Murakami, Takeshi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11060550	A2	19990302	JP 1997-229209	19970826
OTHER SOURCE(S): GI		CASREACT 130:223073		



AB Title compds. I [A = SO₂R₆; R₁-R₅ = H, halo, (un)substituted aliph. or arom. hydrocarbon, etc.; R₆ = (un)substituted aliph. or arom. hydrocarbon] are prep'd. by reaction of II (R₁-R₅ = same as I; X₁, X₂ = halo) with bases in solvents, extn. of tropones I (A = H, R₁-R₅ = same as I) (III) with org. solvents, removal of acid components, sulfonylation without isolation of III. 7,7-Dichlorobicyclo[3.2.0]hept-2-en-6-one was treated with NaOH in AcOH under reflux for 10 h and extd. to give a PhMe soln. contg. tropone (94.2% yield), which was washed with satd. NaCl aq. soln. 4 times and sulfonylated with p-MeC₆H₄SO₂Cl in THF in the presence of Et₃N at 20-30.degree. for 5 h to give 73% 2-(p-toluenesulfonyloxy)tropone.

MSTR 2



G1 = H / X / Ak (SO) / Cb<AR (0)> (SO) / aryl (SO) /
(EX loweralkyl (SO) / Ph / Pr-i)

MPL: claim 1

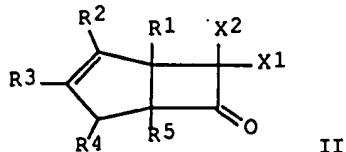
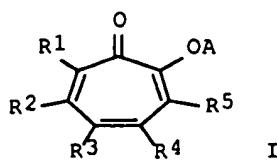
NTE: additional ring formation also claimed

Preparation of sulfonyloxytropones

L24 ANSWER 90 OF 94 MARPAT COPYRIGHT 2000 ACS
ACCESSION NUMBER: 130:109977 MARPAT

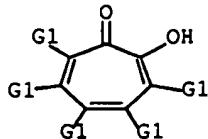
INVENTOR(S): Takuma, Yuki; Okamoto, Ken; Mizuho, Yuji; Murakami, Takeshi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11001465	A2	19990106	JP 1997-153419	19970611
OTHER SOURCE(S): GI		CASREACT 130:109977		



AB Title compds. I [A = OSO₂R₆; R₁-R₅ = H, halo, (substituted) aliph. or arom. hydrocarbon, etc.; R₆ = (substituted) aliph. or arom. hydrocarbon] are prep'd. by reaction of bicycloheptenones II (R₁-R₅ = same as above; X₁, X₂ = halo) with acid-binding agents in carboxylic acid solvents contg. carboxylates, extn. of tropones I (A = H; R₁-R₅ = same as above) (III) with org. solvents, and reaction of III with sulfonating agents without isomerization of III. 7,7-Dichlorobicyclo[3.2.0]hept-2-en-6-one was treated with NaOH in AcOH under reflux for 8 h and extd. with PhMe to give 93.4% tropone, which was treated with p-MeC₆H₄SO₂Cl in the presence of Et₃N at 20-30.degree. for 4 h to give 85.0% 2-(p-toluenesulfonyloxy)tropone with 99.3% purity.

MSTR 2



G1 = H / Cl / Br / alkyl<(1-5)> (SO (1-) G3) / aryl (SO (1-) G3) / (EX Ph / p-C₆H₄Me / Pr-i)
G3 = R / (EX CH₂OMe / CF₃ / 20 / X / alkoxy)



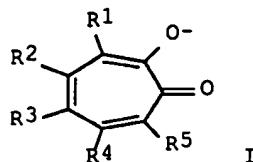
G4 = Cl / OEt
MPL: claim 1
NTE: substitution is restricted

Preparation of aromatic carbonate esters

L24 ANSWER 92 OF 94 MARPAT COPYRIGHT 2000 ACS
ACCESSION NUMBER: 125:247400 MARPAT

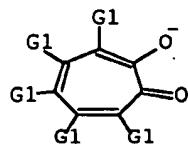
INVENTOR(S): Ookago, Juji; Hayashi, Hideto; Myagi, Hidekazu;
Kujira, Katsufumi; Takagi, Masatoshi; Suzuki, Naoki
PATENT ASSIGNEE(S): Mitsubishi Chem Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08193056	A2	19960730	JP 1995-4382	19950113
OTHER SOURCE(S): GI		CASREACT 125:247400		



AB The title compds. are prep'd. by treating arom. hydroxy compds. with CO and O in the presence of catalysts contg. (A) Pd and/or Pd compds., (B) Ce compds. and/or Co compds. binding with .gtoreq.1 of tropolonate aniones I (R¹⁻⁵ = H, C¹⁻²⁰ alkyl), and (C) quaternary onium halides and/or alkali halides. Autoclaving a mixt. of PhOH, Pd/C, tetrakis(tropolonate)cerium, and CsCl at 100.degree., 6 MPa CO, and 3 MPa air for 3 h gave 20.4% (PhO)₂CO.

MSTR 1



G1 = H / alkyl<(1-20)> / (SC Pr-i)
MPL: claim 1

negative bacteria such as E.coli, Pseudomonas aeruginosa and Staphylococcus aureus, including methicillin-resistant strains (MRSA). The agent is used to impregnate nonwoven cloth, for disinfecting the skin; in creams, emulsions, lotions, oils, cosmetics, packs, bath agents, agents to treat athlete's foot, hair growth agents, and moisturisers, for application to the skin; and in washing agents such as skin washing agents, rinses, shampoo agents for washing food or food vessels, agents for washing machinery vessels and dentifrice or mouth washes.

ADVANTAGE - The aluminium component stabilises the hinokitiol component against degradation from heat and light, so that products contg. the agent can be stored for longer.

Dwg.0/0

- Hydrophilising agent to facilitate cleaning of hard surfaces - contg. benzo cycloheptenones as hydrophilising agent.

L54 ANSWER 468 OF 499 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1995-340384 [44] WPINDEX
DOC. NO. CPI: C1995-150178

DERWENT CLASS: A60 D21 E13 E14 F06 G04
PATENT ASSIGNEE(S): (KAOS) KAO CORP
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
JP 07233397	A	19950905	(199544)*		7	C11D007-26

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 07233397	A	JP 1994-78666	19940418

PRIORITY APPLN. INFO: JP 1993-332341 19931227
INT. PATENT CLASSIF.:

MAIN: C11D007-26
SECONDARY: C09K003-00; D06M013-152
ADDITIONAL: C09K003-16; C09K003-18

BASIC ABSTRACT:

JP 07233397 A UPAB: 19951109

New hydrophilising agent contains a benzotropolone(s) of formula (1). R1 = H or OH; R2 and R3 = H, CH₃, carboxyl or either of the gps. described on page 2; R4 = H or 3,4,5-trihydroxybenzoyl; R5 = H, OH or 3,4-trihydroxybenzyl.

Benzotropolones include theaflavin, thaflavin monogallate, theaflavin digallate, categallin, pyrogallin, erycetain and purpurogallin.

USE - Hydrophilisaton comprising contacting solid surfaces with the soln. contg. (1) is new. Applicable substrates include hard surfaces, such as glass, pottery and enamel, metals, such as aluminium, stainless steel and brass, plastics, such as polyethylene, polypropylene, and melamine resins, natural fibres, such as cotton, silk and wool, synthetic fibres, such as polyesters, nylons and rayons, hair and the teeth.

ADVANTAGE - The agent notably facilitates cleaning of surfaces of glass, metals, pottery, fibres and so on and prevents their re-soiling.
Dwg.0/0

- Prepn. of 2-chloro-5-isopropyl **tropone** - comprises reacting di chloro carbene and 1-alkoxy-4-isopropyl-1,4-cyclohexadiene, oxidising prod. and ring-expanding using acid catalyst.

L54 ANSWER 474 OF 499 WPIINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
 ACCESSION NUMBER: 1991-291719 [40] WPIINDEX
 DOC. NO. CPI: C1991-126309

DERWENT CLASS: B05 C03 D21
 PATENT ASSIGNEE(S): (TAKS) TAKASAGO PERFUMERY CO LTD
 COUNTRY COUNT: 1
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
JP 03193743	A	19910823	(199140)*			
JP 07053681	B2	19950607	(199527)		6	C07C049-687

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 03193743	A	JP 1989-332961	19891225
JP 07053681	B2	JP 1989-332961	19891225

FILING DETAILS:

PATENT NO	KIND	PATENT NO
JP 07053681	B2 Based on	JP 03193743

PRIORITY APPLN. INFO: JP 1989-332961 19891225
 INT. PATENT CLASSIF.: C07B061-00; C07C041-30; C07C043-18; C07C045-48;
 C07C049-41; C07D303-22
 SECONDARY: C07B061-00; C07C041-30; C07C043-18; C07C045-48;
 C07C045-58; C07C049-41; C07D303-22

BASIC ABSTRACT:

JP 03193743 A UPAB: 19930928
 Prepn. of 2-chloro-5-isopropyltropone of formula (IV) comprises: adding dichlorocarbene to 1-alkoxy-4-isopropyl-1,4-cyclohexadiene of formula (I) to give 1-alkoxy-4-isopropyl-7,7-dichlorobicyclo(4.1.0)hept-3-ene of formula (II), oxidising (II) to give 1-alkoxyl-4-isopropyl-3,4-epoxy-7,7-dichlorobicyclo(4.1.0)heptane of formula (III), and expanding the ring of (III) in the presence of acid catalyst to give (IV). R = 1-3C alkyl. (I) can be prep'd. by esterification of 4-isopropylphenol and subsequent Birch reduction. Dichlorocarbene is prep'd. in the CHCl₃ - 50% NaOH - phase-transfer catalyst system. As an agent for epoxidation, ACOOH, aq. H₂O₂ -oxidising agent, etc. are used.

USE/ADVANTAGE - (IV) are useful intermediates for prepn. of 4- or 5-isopropyl-2-hydroxycyclohepta-2,4,6-triene-1-one and azulene derivs., which have cell activating, antibacterial, and antimycotic effect and they are blended to trichogen, dentifrice, cosmetics, etc. The process gives (IV) in high yield using a cheap starting material and suitable for mass-production.

0/0

- Essential oil and **tropolone**(s) prodn. - by cultivating callus formed on juniper sp..

L54 ANSWER 476 OF 499 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1990-072979 [10] WPINDEX

DOC. NO. NON-CPI: N1990-055821

DOC. NO. CPI: C1990-032317

DERWENT CLASS: C03 D16 D21 D23 E15 P13

PATENT ASSIGNEE(S): (TAKS) TAKASAGO PERFUMERY CO LTD

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
JP 02027991	A	19900130	(199010)*		8	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 02027991	A	JP 1988-176231	19880716

PRIORITY APPLN. INFO: JP 1988-176231 19880716

INT. PATENT CLASSIF.: A01H004-00; C11B009-00; C12N005-04; C12P007-26;
C12R001-91

BASIC ABSTRACT:

JP 02027991 A UPAB: 19930928

Pieces of plant (*Juniperus chinensis* cv 'Kaizuka') are cultivated to induce a callus, and the obtd callus is propagated, and the essential oil and tropolones produced in it are harvested.

Pref in the cultivation and subcultivation, growth regulating naphthaleneacetic acid, indole acetic acid) or cytokinins (benzyladenine, kinetin, 2-isopentenyladenine, 6-benzyladenine) are used.

USE/ADVANTAGE - Essential oil is useful as a component of cosmetic, perfume, soap and other aromatic substances. Tropolones (hinokitiol) are widely used as a component for tooth paste, hair tonic or cloth insecticide. Industrial mass-prodn of essential oil and tropolones (hinokitiol, nutokatin), is provided without influence of natural circumstances. Process may be conducted in a completely controlled environment with ease and the yield is high.

0/0

- Sodium **hinokitiol** extn from essential oils - by dilution with organic solvent, treatment with caustic soda soln, and cooling to ppt.

L54 ANSWER 490 OF 499 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1976-27205X [15] WPINDEX

DERWENT CLASS: B04
PATENT ASSIGNEE(S): (KAFU-I) KAFUKU A
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
JP 51023244	A	19760224	(197615)*		

PRIORITY APPLN. INFO: JP 1974-94749 19740819
INT. PATENT CLASSIF.: C07C049-56

BASIC ABSTRACT:

JP 51023244 A UPAB: 19930901
A process is described for extracting and sepg. sodium **hinokitiol** from **hinokitiol**-contg. essential oils such as those obtd. from *Quercus dentata*, *Chamaecyparis formosensis*, *Thujopsis dolabrata* var. *Hondai*, *T. standishii* Carr., etc. The oil is diluted 8-10 fold with an organic solvent (pref. benzene). To the resulting diluted liq. is added 3N caustic soda followed by shaking, and the sepd. alkali layer is allowed to stand under freezing to precipitate the desired cpd. Sepn. of the oily layer and aq. layer is easy. The desired cpd. can be obtd. in high yield.

- Cyanoacrylate-contng phenol derivs - for dental use.

L54 ANSWER 496 OF 499 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
ACCESSION NUMBER: 1973-56956U [39] WPINDEX

DERWENT CLASS: A96 B05 D21
PATENT ASSIGNEE(S): (NEO-N) NEO SEIYAKU KOGYO CO LTD
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
JP 47043218	A	(197339)*			

PRIORITY APPLN. INFO: JP 1971-30422 19710510
BASIC ABSTRACT:

JP 47043218 A UPAB: 19930831
A dental palliative soln. contains cyanoacrylate and o-methoxyphenol, its derivs., or **hinokitiol** (1-20%) and should be kept in cool and dark place.

- Wash compsn. for use in **dental** drugs, cosmetic creams, skin washes etc. - contains **hinokitiol** and metal soap composed of metal other than alkali metal.

L18 ANSWER 6 OF 16 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD

AN 1996-379456 [38] WPINDEX

DNC C1996-119831

DC B05 D21 E15

PA (PPFP-N) P & PF KK

CYC 1

PI JP 08183997 A 19960716 (199638)* 9p

ADT JP 08183997 A JP 1994-339603 19941227

PRAI JP 1994-339603 19941227

AN 1996-379456 [38] WPINDEX

AB JP 08183997 A UPAB: 19960924

Wash compsn. contains as its essential components, **hinokitiol** and a metal soap composed of a metal other than alkali metals.

USE/ADVANTAGE - **Hinokitiol** is useful as a microbicidal or antiseptic agent compounded in dental drugs, cosmetic cream, skin washes, etc. Compounding of metal soap in this **hinokitiol**-based wash compsn. improves photo-, heat or chemical stability of **hinokitiol** without affecting the foaming property, colour, etc. of the compsn.

Pref. metal is Al, Ca, Mg, Ba, Cu, Fe or Ag.

In an example, ethanol (10 wt.%) and mixt. of fatty acids (lauric acid 15, myristic acid 30, palmitic acid 10, stearic acid 25, and oleic acid 20 pts. wt.) were mixed in reactor at 50-70 deg.C. To this was added NaOH for neutralisation to obtain mixt. of sodium salts of fatty acids. Then, 45% of this mixt. was maintained at 65-80 deg.C. To this were added sorbitol 1%, purified sugar 10%, glycerine 5%, and **hinokitiol** and metal soap powder (aluminium monostearate). Mixt. was added to ion-exchanged water to form the total 100%. Colloidal soap was poured into frame, cooled, solidified, cit, dried, and moulded to form a clear solid soap. This wash showed good photostability (3000 lux, 300 hrs.) and heat stability (37 deg.C, 30 days).

- Abrasive compsn. used in **dentifrice** - comprises porous coral powder of specified particle size and fine pore dia..

L18 ANSWER 9 OF 16 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1991-048182 [07] WPINDEX
DNC C1991-020518
DC B07 D21
PA (HAZA) HAZAMA GUMI LTD
CYC 1
PI JP 03000789 A 19910107 (199107)* 2p
JP 2778987 B2 19980723 (199834) 2p
ADT JP 03000789 A JP 1989-136377 19890529; JP 2778987 B2 JP 1989-136377 19890529
FDT JP 2778987 B2 Previous Publ. JP 03000789
PRAI JP 1989-136377 19890529
AN 1991-048182 [07] WPINDEX
AB JP 03000789 A UPAB: 19930928

The compsn. comprises porous coral powder, pref. of particle size and fine pore dia. of 1-50 microns and 0.01-50 microns respectively.

USE/ADVANTAGE - The abrasive compsn. is used for **dentifrice**, and it not only has appropriate abrasive properties but is also excellent as a builder (surfactant) and adsorbent. The use of the abrasive compsn. enables removal of sediment on the tooth face without injuring teeth. When a flavouring agent and medical ingredients are added to it as additives, they are effectively retained and the action of the additives is effectively displayed, and additionally, any odour in the mouth can be adsorbed and removed.

In an example, the abrasive compsn. was incorporated in the following dentifrice compsn. comprising 20 wt.% porous coral powder (particle size: 1-10 microns), 0.1 wt.% hinokitiol, 0.5 wt.% sodium laurate, 10 wt.% sodium alginate, 0.1 wt.% spearmint oil and water (balance).

0/0

Pref. powder also contains Cu-ions and/or Zn-ions. Prepn. comprises (a) adding CaCl₂ soln. to Na₂HPO₄ soln. and 1 or more Ag-salt, to form hydroxyapatite ppte. contg. Ag-ions; (b) collecting and washing ppte.; then (c) drying and crushing to form prod..

USE - As artificial bone, artificial root of tooth, dentifrice, dental cement, supplement for bone deficit, cosmetic material.

ABEQ DE 3932469 C UPAB: 19931116

Antimicrobial hydroxyapatite powder contg. 0.0001-5 wt.% Ag-, Cu- and/or Zn- ions adsorbed on it is claimed. The powder is prep'd. by suspending hydroxyapatite in water, adding an Ag, Cu and/or Zn salt, (I) washing the ppte. with distilled water, drying and pulverising; or by adding CaCl₂ soln. in drops to a soln. of Na₂HPO₄ and the (I) salt, and treating the ppte. as before.

An antimicrobial powder comprising (a) 0.01-10 wt.% hinokitiol, tannin, lysozyme, protamine and/or sorbic acid; and hydroxyapatite, with (a) adsorbed on the hydroxyapatite, is also claimed.

USE - The powder has high affinity for, and is used in the prodn. of, dental materials (dental cement, tooth-cleaning materials etc.), bone-repair materials, cosmetic agents etc., foodstuffs, packing materials, filler etc...
Dwg. 0/0

ABEQ US 5268174 A UPAB: 19940203

Antimicrobial hydroxyapatite powder comprises hydroxyapatite powder having absorbed 0.01-10 wt.% of an antimicrobial agent selected from hinokitiol, protamine and sorbic acid.

USE/ADVANTAGE - These powders are widely used in the medical, dental, and hygienic fields as artificial bone, dentifrice, dental cement, supplement for bone deficit and cosmetic materials. The antimicrobial hydroxyapatites are stable and heat resistant as well as safe. The antimicrobial agents are widely used in the fields of drug, medical instruments, cosmetics, foods, kitchen wares, etc.

Essential oil and tropolone(s) prodn. - by cultivating callus formed on juniper sp..

L18 ANSWER 11 OF 16 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD

AN 1990-072979 [10] WPINDEX

DNN N1990-055821 DNC C1990-032317

DC C03 D16 D21 D23 E15 P13

PA (TAKS) TAKASAGO PERFUMERY CO LTD

CYC 1

PI JP 02027991 A 19900130 (199010)* 8p

ADT JP 02027991 A JP 1988-176231 19880716

PRAI JP 1988-176231 19880716

AN 1990-072979 [10] WPINDEX

AB JP 02027991 A UPAB: 19930928

Pieces of plant (*Juniperus chinensis* cv 'Kaizuka') are cultivated to induce a callus, and the obt'd callus is propagated, and the essential oil and tropolones produced in it are harvested.

Pref in the cultivation and subcultivation, growth regulating naphthaleneacetic acid, indole acetic acid) or cytokinins (benzyladenine, kinetin, 2-isopentenyladenine, 6-benzyladenine) are used.

USE/ADVANTAGE - Essential oil is useful as a component of cosmetic, perfume, soap and other aromatic substances. Tropolones (hinokitiol) are widely used as a component for tooth paste, hair tonic or cloth insecticide. Industrial mass-prodn of essential oil and tropolones (hinokitiol, nutokatin), is provided without influence of natural circumstances. Process may be conducted in a completely controlled environment with ease and the yield is high.
0/0

- Prepn. of **beta-thujaplicin**, used in hair ointment, etc. - by dehydro bromination of 3,7-di bromo-4-isopropyl -1,2-cycloheptane di one.

L18 ANSWER 12 OF 16 WPINDEX COPYRIGHT 2000 DERWENT INFORMATION LTD
AN 1988-046871 [07] WPINDEX

DNC C1988-020923

DC B05 D21 E15

PA (HINO-N) HINOKI SHINYAKU KK

CYC 1

PI JP 63005048 A 19880111 (198807)* 6p
JP 63044733 B 19880906 (198839)

ADT JP 63005048 A JP 1986-149260 19860625

PRAI JP 1986-149260 19860625

AN 1988-046871 [07] WPINDEX

AB JP 63005048 A UPAB: 19930923

Prepn. of **beta-thujaplicin** comprises (I) obtaining 4-isopropyl-1,2-cycloheptadione of formula (8) by oxidn. of 3-isopropyl cycloheptanone of formula (7); (II) obtaining 3,7-dibromo-4-isopropyl -1,2-cycloheptanedione of formula (9) by bromination of 4-isopropyl-1,2-cycloheptanedione of formula (8); and (III) obtaining **beta-thujaplicin** by dehydrobromination of 3,7-dibromo-4-isopropyl-1,2-cycloheptanedione of formula (9).

USE/ADVANTAGE - The cpd. can be easily obtd. in high yield using simple appts. and is useful for hair ointment, remedy for pyorrhoea alveolaris, toothpaste, basic cosmetic, etc.

In an example, crude 3,7-dibromo-4-isopropyl -1,2-cycloheptadione was dissolved in 4ml dimethylformamide, and 160mg anhydrous lithium carbonate and 160mg lithium chloride were added. The mixt. was stirred for 45 mins. at 120 deg.C to dehydrobrominate. After the reaction was completed, the reaction mixt. was diluted with ether, and the ether layer extd. with 5% aq. NaOH soln. The extd. aq. alkali soln. was acidified with HCl and extd. with dichloromethane. The dichloromethane layer was washed with water and satd. brine, and then the solvent was distilled off under reduced pressure. The residue was diluted with ether, and then washed with water and satd. brine. The solvent was distilled off under reduced pressure to obtain 80mg of crude **beta-thujaplicin**. The yield based on 3-isopropyl cycloheptanone was 61.0%.

0/0

- Beta-thujaplicin (hinokitiol) prepn.** - by reacting 1-isopropyl-cyclopenta-1,3-diene with dihaloacetylchloride and then with acid.

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beta-Thujaplicin is prep'd. by reacting 1-isopropyl cyclopenta-1,3-diene with dihaloacetyl halide to form 1-isopropyl-1,3-diene dihaloketene adduct, and treating the adduct with 1-3C lower carboxylic acid and alkali metal salt to form thujaplicin. **beta-Thujaplicin** is useful as an antibiotic, hair restorer and additive for dental cream, no gamma-thujaplicin is produced.